



High Performance Amplifiers, 29 dB Gain 5-200 MHz

AM-/AMC-140

- +47 dBm Typical Midband Third Order Intercept
- +28 dBm Typical Midband 1 dB Compression
- 5.4 dB Typical Midband Noise Figure

Guaranteed Specifications*

(From -55°C to +85°C Case Temp)

Frequency Range	5-200 MHz
Gain (+25°C) @ 50 MHz	29.3 ± 1 dB
Frequency Response	± 1.2 dB Max
Gain Variation with Temperature	± 1.2 dB Max
Output Power (1 dB Compression)	
5-200 MHz	+23 dBm Min
5-70 MHz	+24 dBm Min
Noise Figure	7 dB Max
Reverse Transmission	-38 dB Max
	-42 dB Typ

VSWR	
5-200 MHz	2.5:1 Max
5-70 MHz	2.0:1 Max

Intermodulation Intercept Point (for two-tone output power up to +10 dBm)

Second Order	+52 dBm Min
Third Order (5-200 MHz)	+36 dBm Min
Third Order (5-70 MHz)	+40 dBm Min

Bias Power	+24 VDC @ 250 mA Max (210 mA, 5W Typical)
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Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Rating	
RF Input	+5 dBm Max
Bias	26 VDC Max

Environmental

See Appendix for MIL-STD-883 screening option.

Pin Configuration	IN, P6; OUT, P1, VDC, P5, P10
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*All specifications apply when operated at +24 VDC, with 50 ohm source and load impedance.

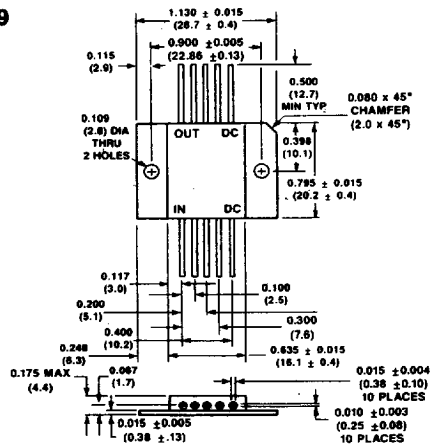
This product contains elements protected by United States Patent Number 3,624,536.

S-Parameters: For typical S-Parameter data, see appendix.

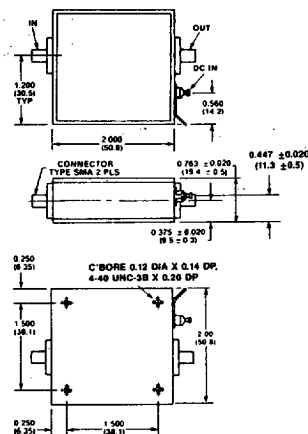
Ordering Information

Model No.	Package
AM-140 PIN	Flatpack
AMC-140 SMA	Connectorized

FP-9



C-25



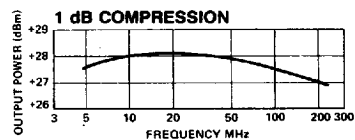
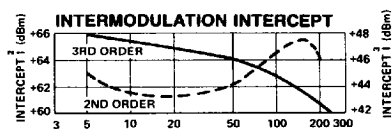
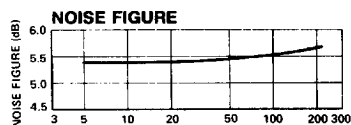
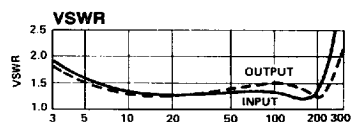
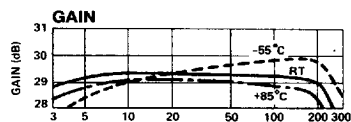
Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ± 0.010
.xx = ± 0.02

Specifications Subject to Change Without Notice.

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Typical Performance



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